

09/482725

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 IBM Technical Disclosure Bulletins

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DATE: Thursday, November 10, 2005 [Printable Copy](#) [Create Case](#)

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
 OP=OR

reviewed

L13 L12 and 17

8 L13

L12 17 or 18 or 19 or 110 or 111

204 L12

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

(5103476 | 5592549 | 4932054 | 5047928 | 5337357 | 5724424 | 5909492 |
 5005122 | 4961142 | 5710887 | 4891838 | 5794259 | 4937863 | 5757908 |
 5050213 | 5014234 | 5845070 | 5940807 | 4529870 | 5113519 | 5897622 |
L11 5553143 | 4977594 | 5758068 | 5339091 | 5159182 | 5023907 | 5758069 |
 5146499 | 5247575 | 5390297 | 5805802 | 3790700 | 5260999 | 5778173 |
 5255106 | 4953209 | 5010571 | 5291596 | 5918213 | 5708709 | 5898777 |
 4924378 | 5895454 | 4658093 | 5058164 | 5204897 | 5138712 | 5530752 |
 5191193)! [PN]

50 L11

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
 OP=OR

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|------------|---|-----|------------|
| <u>L10</u> | ('6073124' 'EP 715244A' 'US 6073124A' '5715403' 'JP408263440A') [ABPN1,NRPN,PN,TBAN,WKU] | 6 | <u>L10</u> |
| <u>L9</u> | ('6073124' 'EP 715244A' 'US 6073124A' '5715403' 'JP408263440A')[URPN] | 140 | <u>L9</u> |
| <u>L8</u> | 6073124.pn. or 5715403.pn. | 5 | <u>L8</u> |
| <u>L7</u> | L6 or l5 | 8 | <u>L7</u> |
| <u>L6</u> | ((encrypt\$ near3 (decrypt? adj2 key\$)) with public\$) and @ad<=19990327 | 8 | <u>L6</u> |
| <u>L5</u> | ((encrypt\$ near3 (decrypt? adj2 key\$)) with public\$) and @pd<=19990327 | 2 | <u>L5</u> |
| <u>L4</u> | ((encrypt\$ near5 (descript? adj3 key\$)) with public\$) and @pd<=19990327 | 0 | <u>L4</u> |
| <u>L3</u> | ((encrypt\$ near5 (descript? adj3 key\$)) with public\$) and @ad<=19990327 | 0 | <u>L3</u> |
| <u>L2</u> | ((encrypt\$ near3 (descript? adj2 key\$)) with public\$) and @ad<=19990327 | 0 | <u>L2</u> |
| <u>L1</u> | ((encrypt\$ near3 (descript? adj2 key\$)) with public\$) and @pd<=19990327 | 0 | <u>L1</u> |

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20020063933 A1

Using default format because multiple data bases are involved.

L7: Entry 1 of 8

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020063933

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020063933 A1

TITLE: DATA TRANSMITTING APPARATUS

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|----------|-------|---------|
| MAEDA, YASUAKI | KANAGAWA | | JP |
| FUJIIIE, KAZUHIKO | KANAGAWA | | JP |

US-CL-CURRENT: 398/141; 398/140

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | EMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

☐ 2. Document ID: US 20020044654 A1

L7: Entry 2 of 8

File: PGPB

Apr 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020044654

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020044654 A1

TITLE: DATA TRANSMITTING APPARATUS AND DATA TRANSMITTING METHOD

PUBLICATION-DATE: April 18, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|----------|-------|---------|
| MAEDA, YASUAKI | KANAGAWA | | JP |
| FUJIIIE, KAZUHIKO | KANAGAWA | | JP |

US-CL-CURRENT: 380/43

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | EMC | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-----|----------|

☐ 3. Document ID: US 20010049667 A1

L7: Entry 3 of 8

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049667
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010049667 A1

TITLE: ELECTRONIC CASH IMPLEMENTING METHOD AND EQUIPMENT USING USER SIGNATURE AND RECORDING MEDIUM RECORDED THEREON A PROGRAM FOR THE METHOD

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|-------|-------|---------|
| MORIBATAKE, HIDEMI | TOKYO | | JP |
| OKAMOTO, TATSUAKI | TOKYO | | JP |

US-CL-CURRENT: 705/69

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Image | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|----------|

☐ 4. Document ID: US 6539364 B2

L7: Entry 4 of 8

File: USPT

Mar 25, 2003

US-PAT-NO: 6539364
DOCUMENT-IDENTIFIER: US 6539364 B2

TITLE: Electronic cash implementing method and equipment using user signature and recording medium recorded thereon a program for the method

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Image | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|----------|

☐ 5. Document ID: US 6381331 B1

L7: Entry 5 of 8

File: USPT

Apr 30, 2002

US-PAT-NO: 6381331
DOCUMENT-IDENTIFIER: US 6381331 B1

**** See image for Certificate of Correction ****

TITLE: Information sending system and method for sending encrypted information

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Image | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|-------|----------|

☐ 6. Document ID: US 6072874 A

L7: Entry 6 of 8

File: USPT

Jun 6, 2000

US-PAT-NO: 6072874
DOCUMENT-IDENTIFIER: US 6072874 A

TITLE: Signing method and apparatus using the same

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|

☐ 7. Document ID: US 5883958 A

L7: Entry 7 of 8

File: USPT

Mar 16, 1999

US-PAT-NO: 5883958
DOCUMENT-IDENTIFIER: US 5883958 A

TITLE: Method and device for data decryption, a method and device for device identification, a recording medium, a method of disk production, and a method and apparatus for disk recording

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|

☐ 8. Document ID: US 5872846 A

L7: Entry 8 of 8

File: USPT

Feb 16, 1999

US-PAT-NO: 5872846
DOCUMENT-IDENTIFIER: US 5872846 A

TITLE: System and method for providing security in data communication systems

| | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-------|----------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | Index | Drawings |
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L7: Entry 1 of 8

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020063933

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020063933 A1

TITLE: DATA TRANSMITTING APPARATUS

PUBLICATION-DATE: May 30, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-------------------|----------|-------|---------|
| MAEDA, YASUAKI | KANAGAWA | | JP |
| FUJIIIE, KAZUHIKO | KANAGAWA | | JP |

APPL-NO: 09/129266 [\[PALM\]](#)

DATE FILED: August 5, 1998

CONTINUED PROSECUTION APPLICATION: This is a publication of a continued prosecution application (CPA) filed under 37 CFR 1.53(d).

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | DOC-ID | APPL-DATE |
|---------|------------|-------------------|-----------------|
| JP | P09-218621 | 1997JP-P09-218621 | August 13, 1997 |

INT-CL: [07] [H04 B 10/00](#), [H04 B 10/12](#)

US-CL-PUBLISHED: 359/173; 359/154

US-CL-CURRENT: [398/141](#); [398/140](#)

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

The present invention is a data transmitting apparatus having a connector that allows a bidirectional communication to be accomplished with one optical cable.

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File: PGPB

May 30, 2002

DOCUMENT-IDENTIFIER: US 20020063933 A1

TITLE: DATA TRANSMITTING APPARATUS

Application Filing Date:

19980805

Detail Description Paragraph:

[0095] Output data of the interface 51 is sent to the receiver 53. Output data of the receiver 53 is sent to the message decoder 55. The message decoder 55 decrypts the common key Key 2 encrypted with the public key Key 1. Output data of the message decoder 55 is sent to the public key decrypting circuit 57. The public key decrypting circuit 57 decrypts the common key Key 2 with the public key Key 1 and the secret key received from the controller 59.

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File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049667

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010049667 A1

TITLE: ELECTRONIC CASH IMPLEMENTING METHOD AND EQUIPMENT USING USER SIGNATURE AND RECORDING MEDIUM RECORDED THEREON A PROGRAM FOR THE METHOD

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|--------------------|-------|-------|---------|
| MORIBATAKE, HIDEMI | TOKYO | | JP |
| OKAMOTO, TATSUAKI | TOKYO | | JP |

APPL-NO: 09/219447 [\[PALM\]](#)

DATE FILED: December 23, 1998

CONTINUED PROSECUTION APPLICATION: CPA

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | DOC-ID | APPL-DATE |
|---------|-----------|------------------|-------------------|
| JP | 359106/97 | 1997JP-359106/97 | December 26, 1997 |

INT-CL: [07] [G06](#) [F](#) [17/60](#)

US-CL-PUBLISHED: 705/69

US-CL-CURRENT: [705/69](#)

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

A user registers a user public key PKU as a pseudonym at a trustee or issuer and obtains an signature for the pseudonym as a license. The sends the pseudonym, PKU identification information IdU and the amount of withdrawal x to the issuer institution. The issuer increments a balance counter of the pseudonym by x, then generates an issuer signature SKI(PKU, x) with a secret key SKI, and sends the issuer signature as an electronic cash to the user. The user verifies the validity of the issuer signature with a public key SKI, and if valid, increments an electronic cash balance counter Balance by x. At the time of payment, user sends the public key PKU and the license to a shop, and the shop verifies the validity of the license, and if valid, sends a challenge to the user. The user attaches a signature to the challenge with user secret key SKU, then sends it to the shop together with the amount due y, and decrements the electronic cash balance counter by y.

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L7: Entry 3 of 8

File: PGPB

Dec 6, 2001

DOCUMENT-IDENTIFIER: US 20010049667 A1

TITLE: ELECTRONIC CASH IMPLEMENTING METHOD AND EQUIPMENT USING USER SIGNATURE AND RECORDING MEDIUM RECORDED THEREON A PROGRAM FOR THE METHOD

Application Filing Date:19981223Detail Description Paragraph:

[0136] The electronic cash system according to this embodiment is identical in configuration with that depicted in FIG. 13. According to the above-described third embodiment intended to ensure the protection of user privacy from the bank 200, in either of the procedures for the registration of the user for use of electronic cash (FIG. 14) and for the issuance of electronic cash (that is, the withdrawal procedure) (FIG. 15), the user's generated common key K and public key PKU are encrypted using the issuer public key PKI and sent to the issuer equipment 100 via the bank equipment 200, and the issuer equipment 100 decrypts the common key K from the encrypted key K, and uses the decrypted common key K to encrypt the signature that is sent to the user equipment 300. This fourth embodiment is common to the third embodiment in that the user sends the common ky after encrypting it with the issuer public key PKI in the user registration procedure, but differs in that the issuer stores its decrypted user common key in the storage device in correspondence with the user so that when the user makes a request for the issuance of electronic cash, it can encrypt its public key PKU and the amount of money x with the common key K instead of using the issuer public key PKI.

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File: USPT

Apr 30, 2002

US-PAT-NO: 6381331

DOCUMENT-IDENTIFIER: US 6381331 B1

**** See image for Certificate of Correction ****

TITLE: Information sending system and method for sending encrypted information

DATE-ISSUED: April 30, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|----------|-------|----------|---------|
| Kato; Takehisa | Yokohama | | | JP |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------------|----------|-------|----------|---------|-----------|
| Kabushiki Kaisha Toshiba | Kawasaki | | | JP | 03 |

APPL-NO: 09/166285 [\[PALM\]](#)

DATE FILED: October 5, 1998

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|-----------------|
| JP | 9-272793 | October 6, 1997 |

INT-CL: [07] [G06](#) [F](#) [1/26](#)

US-CL-ISSUED: 380/37; 380/277, 713/168, 713/200

US-CL-CURRENT: [380/37](#); [380/277](#), [713/168](#), [726/26](#), [726/28](#)

FL: [380/28](#), [380/29](#), [380/259](#), [380/277](#), [380/37](#), [713/168](#), [713/200](#)

PRIOR-AR. USED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|-------------------------|------------|----------------|---------|
| <input type="checkbox"/> | 5517614 | May 1996 | Tajima et al. | 395/180 |
| <input type="checkbox"/> | 5638445 | June 1997 | Spelman et al. | 380/21 |

OTHER PUBLICATIONS

Shinichi Ikeno et al., "Modern Cryptography Theory", Ed., The Institute of

Electronics, Information and Communication Engineers, pp. 105-123.

Eiji Okamoto, "Introduction to Theory of Cryptography", Kyoritsu Shuppan, pp. 88-99.

ART-UNIT: 2132

PRIMARY-EXAMINER: Peeso; Thomas R.

ATTY-AGENT-FIRM: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

ABSTRACT:

This invention discloses an information sending system for sending encrypted information which can be decrypted in units of parts of information. This information sending system includes information segmentation means for segmenting information into a plurality of blocks, first encryption means for encrypting more than one blocks of the plurality of blocks using a first key, second encryption means for encrypting more than one blocks of the blocks other than those encrypted by the first encryption means using a second key, and information sending means for sending outgoing information including the blocks encrypted by the first encryption means and those encrypted by the second encryption means.

13 Claims, 15 Drawing figures

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L7: Entry 5 of 8

File: USPT

Apr 30, 2002

DOCUMENT-IDENTIFIER: US 6381331 B1

**** See image for Certificate of Correction ****

TITLE: Information sending system and method for sending encrypted information

Application Filing Date (1):

19981005

Detailed Description Text (44):

The packet (mail addressed to B) stored in the mail server 25 is audited by the administrator C. That is, the administrator C decrypts the key K1 encrypted by his or her public key Kpc using his or her private key Ksc to extract the key K1. Note that the administrator C cannot extract the key K2. The administrator C decrypts only the blocks 4BC that can be decrypted by the extracted key K1 on the basis of the header information h and checks the contents (ST11).

Detailed Description Text (46):

Upon receiving the mail, the receiver B decrypts and extracts the keys K1 and K2 encrypted by his or her public key Kpb using his or her private key Ksb. The blocks 4BC encrypted by the key K1 and blocks 4B encrypted by the key K2 are decrypted on the basis of the header information h. In this way, the receiver B can read all the pieces of information in the mail.

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L7: Entry 6 of 8

File: USPT

Jun 6, 2000

US-PAT-NO: 6072874

DOCUMENT-IDENTIFIER: US 6072874 A

TITLE: Signing method and apparatus using the same

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------------|-------|----------|---------|
| Shin; Kil-Ho | Nakai-machi | | | JP |
| Kobayashi; Kenichi | Nakai-machi | | | JP |
| Aratani; Toru | Nakai-machi | | | JP |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|----------------------|-------|-------|----------|---------|-----------|
| Fuji Xerox Co., Ltd. | Tokyo | | | JP | 03 |

APPL-NO: 08/777047 [\[PALM\]](#)

DATE FILED: December 30, 1996

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|------------------|
| JP | 8-011568 | January 26, 1996 |

INT-CL: [07] [H04](#) [N](#) [7/167](#)

US-CL-ISSUED: 380/231; 380/229, 380/232, 380/278

US-CL-CURRENT: [380/231](#); [380/229](#), [380/232](#), [380/278](#)

FIELD-OF-SEARCH: 380/4, 380/23, 380/25, 380/231, 380/232, 380/229, 380/278

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|-------------------------|----------------|---------------|--------|
| <input type="checkbox"/> | 5050213 | September 1991 | Shear | 380/25 |
| <input type="checkbox"/> | 5457746 | October 1995 | Dolphin | 380/4 |
| <input type="checkbox"/> | 5537473 | July 1996 | Saward | 380/16 |
| <input type="checkbox"/> | 5557679 | September 1996 | Julin et al. | 380/23 |

| | | | | |
|--------------------------|----------------|---------------|---------------|--------|
| <input type="checkbox"/> | <u>5727065</u> | March 1998 | Dillon | 380/49 |
| <input type="checkbox"/> | <u>5742677</u> | April 1998 | Pinder et al. | 380/4 |
| <input type="checkbox"/> | <u>5825876</u> | October 1998 | Peterson, Jr. | 380/4 |
| <input type="checkbox"/> | <u>5845281</u> | December 1998 | Benson et al. | 707/9 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | CLASS |
|----------------|---------------|---------|-------|
| 4-334227 | November 1992 | JP | |

ART-UNIT: 276

PRIMARY-EXAMINER: Hayes; Gail O.

ASSISTANT-EXAMINER: Song; Ho S.

ATTY-AGENT-FIRM: Oliff & Berridge, PLC

ABSTRACT:

The present invention provides a signing apparatus used for signing by a user on usage information of a source provided in a format made available by the use of key information. The apparatus includes a unit for generating the usage information which is to be signed, a unit for performing a first computation by utilizing the key information which has been encrypted and the usage information, a unit for performing a second computation by utilizing a user's private key and a result of the first computation. The apparatus further includes a unit for performing a third computation by utilizing a result of the second computation, and thereby generating the key information which has been decrypted and a result of the computation performed on the usage information by utilizing the user's private key. The apparatus further includes a unit for making the source available by utilizing the decrypted key information.

13 Claims, 4 Drawing figures

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L7: Entry 6 of 8

File: USPT

Jun 6, 2000

Review

DOCUMENT-IDENTIFIER: US 6072874 A

TITLE: Signing method and apparatus using the same

Application Filing Date (1):

19961230

Detailed Description Text (9):

The secret key storing unit 32 stores a secret key D which makes a pair with the public key E. The decryption unit 33 decrypts key information K.sup.eE encrypted by the public keys E and e by utilizing the secret key D, and generates data K.sup.e. The concatenation computation unit 34 concatenates the data K.sup.e transmitted from the decryption unit 33 and a Hash value of the message by a predetermined computation and then transmits concatenated information to the authentication card 23. In the concatenated information, the encrypted key information k.sup.e is inseparable from the Hash value and they cannot be separated even if the key d stored in the authentication card 23 is used. In the authentication card 23, the computation is performed on the concatenated information by utilizing the key d, and the result of computation is provided to the separation computation unit 35.

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L7: Entry 7 of 8

File: USPT

Mar 16, 1999

US-PAT-NO: 5883958

DOCUMENT-IDENTIFIER: US 5883958 A

TITLE: Method and device for data decryption, a method and device for device identification, a recording medium, a method of disk production, and a method and apparatus for disk recording

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|----------|-------|----------|---------|
| Ishiguro; Ryuji | Tokyo | | | JP |
| Osawa; Yoshitomo | Kanagawa | | | JP |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------------------|-------|-------|----------|---------|-----------|
| Sony Corporation | Tokyo | | | JP | 03 |

APPL-NO: 08/823176 [\[PALM\]](#)

DATE FILED: March 26, 1997

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|----------|---------------|
| JP | 8-078647 | April 1, 1996 |
| JP | 8-147272 | June 10, 1996 |

INT-CL: [06] [H04](#) [K](#) [1/00](#)

US-CL-ISSUED: 380/4; 380/30, 380/20

US-CL-CURRENT: [705/57](#); [380/201](#), [380/30](#), [705/51](#)

FIELD-OF-SEARCH: 380/4, 380/5, 380/9, 380/20, 380/23, 380/30, 380/21, 380/44

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|-------------------------|----------------|---------------|--------|
| <input type="checkbox"/> | 5796839 | August 1998 | Ishiguro | 380/44 |
| <input type="checkbox"/> | 5802174 | September 1998 | Sako et al. | 380/4 |

ART-UNIT: 276

PRIMARY-EXAMINER: Cain; David

ATTY-AGENT-FIRM: Frommer Lawrence & Haug LLP Frommer; William S.

ABSTRACT:

A video disk playback apparatus includes a disk driver which retrieves video data and a key data table from a digital video disk, and a decoder board which has its own ID. The disk driver receives the ID from the decoder board, verifies the ID, selects key data based on it, calculates a first datum from the selected key data, and sends the datum to the decoder board. The decoder board calculates a second datum from the key data and first datum, and returns the second datum to the disk driver. The disk driver verifies the second datum, produces an encryption key, encrypts the video data based on it, and feeds the encrypted video data to the decoder board. The decoder board calculates a decryption key from the first datum, decrypts the video data based on it, and decodes the decrypted video data for display.

23 Claims, 13 Drawing figures

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L7: Entry 7 of 8

File: USPT

Mar 16, 1999

DOCUMENT-IDENTIFIER: US 5883958 A

TITLE: Method and device for data decryption, a method and device for device identification, a recording medium, a method of disk production, and a method and apparatus for disk recording

Application Filing Date (1):

19970326

DATE ISSUED (1):

19990316

Detailed Description Text (62):

Namely, the encryption key decrypter 105 decrypts the encryption key Q from the encrypted x and y by using the private key n and public key p.

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L7: Entry 8 of 8

File: USPT

Feb 16, 1999

US-PAT-NO: 5872846

DOCUMENT-IDENTIFIER: US 5872846 A

TITLE: System and method for providing security in data communication systems

DATE-ISSUED: February 16, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Ichikawa; Bryan K. | Monument | CO | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|--------------------------------|------------|-------|----------|---------|-----------|
| MCI Communications Corporation | Washington | DC | | | 02 |

APPL-NO: 08/743786 [PALM]

DATE FILED: November 7, 1996

INT-CL: [06] H04 K 1/00

US-CL-ISSUED: 380/23; 380/25

US-CL-CURRENT: 380/282; 380/239, 713/162

FIELD-OF-SEARCH: 380/23, 380/25

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|----------------|----------------|-----------------|--------|
| <input type="checkbox"/> | <u>4885777</u> | December 1989 | Takaragi et al. | 380/30 |
| <input type="checkbox"/> | <u>4908861</u> | March 1990 | Bracht1 et al. | 380/25 |
| <input type="checkbox"/> | <u>4924513</u> | May 1990 | Herbison et al. | 380/25 |
| <input type="checkbox"/> | <u>5450493</u> | September 1995 | Maher | 380/30 |
| <input type="checkbox"/> | <u>5539828</u> | July 1996 | Davis | 380/50 |
| <input type="checkbox"/> | <u>5588061</u> | December 1996 | Ganesan et al. | 380/30 |
| <input type="checkbox"/> | <u>5621796</u> | April 1997 | Davis et al. | 380/24 |

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Denning, Dorothy E. R., Cryptography and Data Security: Combining Block Ciphers, Ch. 15, 1982, Reading, MA: Addison-Wesley, reprinted 1983, pp. 357-358.
Denning, Dorothy E. R., Cryptography and Data Security, 1982, Reading, MA: Addison-Wesley, reprinted 1983, pp. 10-15 & 108-109.

ART-UNIT: 276

PRIMARY-EXAMINER: Cain; David

ABSTRACT:

A system and method for providing security in data communication systems where multiple users are coupled to a common receiving system. The data is encrypted or otherwise encoded by a sender using a key. The encrypted data is then scrambled or otherwise encoded, and transmitted by the sender. The transmitted data is received at a receiver where it is descrambled or otherwise decoded. An authorized user decrypts or otherwise decodes the descrambled data using a key to retrieve clear data. The key itself is encrypted by the sender using an asymmetric encryption algorithm, and is then transmitted by the sender. The authorized user decrypts the encrypted key using the asymmetric encryption algorithm, and uses the key to decrypt the encrypted data.

22 Claims, 8 Drawing figures

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End of Result Set



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L7: Entry 8 of 8

File: USPT

Feb 16, 1999

DOCUMENT-IDENTIFIER: US 5872846 A

TITLE: System and method for providing security in data communication systems

Application Filing Date (1):

19961107

DATE ISSUED (1):

19990216

Detailed Description Text (25):

FIG. 8 illustrates the encryption scheme of FIG. 7 incorporated in the present invention to provide a third level of security and also a unique signature of the sender. Specifically, FIG. 8 includes a sender 802, a key 804, a user's public key 808, a sender's private key 812, a user 820, a user's private key 824, a sender's public key 828 and a decrypted key 832. The sender 802 encrypts or otherwise encodes the key 804 using both the user's public key 808 and the sender's private key 812. The encrypted key is transmitted and is ultimately received by the user 820. The user 820 decrypts the encrypted key using the sender's public key 828 and the user's private key 824. The decrypted key 832 can then be used by the user 820 to decrypt the encrypted data of FIG. 3.

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DATE: Thursday, November 10, 2005 [Printable Copy](#) [Create Case](#)

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
 OP=OR

L14 L13 and l6

3 L14

L13 l9 or l10 or l11 or l12

196 L13

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

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 5005122 | 4961142 | 5710887 | 4891838 | 5794259 | 4937863 | 5757908 |
 5050213 | 5014234 | 5845070 | 5940807 | 4529870 | 5113519 | 5897622 |
 L12 5553143 | 4977594 | 5758068 | 5339091 | 5159182 | 5023907 | 5758069 |
 5146499 | 5247575 | 5390297 | 5805802 | 3790700 | 5260999 | 5778173 |
 5255106 | 4953209 | 5010571 | 5291596 | 5918213 | 5708709 | 5898777 |
 4924378 | 5895454 | 4658093 | 5058164 | 5204897 | 5138712 | 5530752 |
 5191193)! [PN]

50 L12

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
 OP=OR

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| <u>L10</u> | ('6073124' 'EP 715244A' 'US 6073124A' '5715403' 'JP408263440A')[URPN] | 140 | <u>L10</u> |
| <u>L9</u> | L8 | 5 | <u>L9</u> |
| <u>L8</u> | 6073124.pn. or 5715403.pn. <i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i> | 5 | <u>L8</u> |
| <u>L7</u> | 6073124.pn. or 5715403.pn. <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i> | 2 | <u>L7</u> |
| <u>L6</u> | ((encrypt\$ near3 (decrypt\$ adj2 key\$)) with public\$) and @ad<=19990327 | 309 | <u>L6</u> |
| <u>L5</u> | ((encrypt\$ near5 (decrypt\$ adj3 key\$)) with public\$) and @ad<=19990327 | 573 | <u>L5</u> |
| <u>L4</u> | (encrypt\$ near5 (decrypt\$ adj3 key\$)) and @ad<=19990327 | 2064 | <u>L4</u> |
| <u>L3</u> | (encrypt\$ near5 (descript? adj3 key\$)) and @ad<=19990327 | 0 | <u>L3</u> |
| <u>L2</u> | L1 <i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i> | 0 | <u>L2</u> |
| <u>L1</u> | ((encrypt\$ near5 (descript? adj3 key\$)) and public\$) and @ad<=19990327 | 0 | <u>L1</u> |

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L14: Entry 1 of 3

File: USPT

Oct 25, 2005

DOCUMENT-IDENTIFIER: US 6959288 B1

TITLE: Digital content preparation system

Application Filing Date (1):19990201Detailed Description Text (351):

One Symmetric Key 623 are used for decrypting the watermarking instructions and the others for decrypting the Content 113 and any encrypted metadata. Since Content 113 can represent a single song or an entire collect of songs on a CD, a different Symmetric Key 623 may be used for each song. The watermarking instructions are included within the Metadata SC(s) 620 portion in the Order SC(s) 650. The Content 113 and encrypted metadata are in the Content SC(s) 630 at a Content Hosting Site (s) 111. The URL and part names of the encrypted Content 113 and metadata parts, within the Content SC(s) 630, are included in the Key Description part of the Metadata SC(s) 620 portion of the Order SC(s) 650. The Clearinghouse(s) 105 uses its private key to decrypt the Symmetric Keys 623 and then encrypts each of them using the Public Key 661 of the End-User Device(s) 109. The Public Key 661 of the End-User Device(s) 109 is retrieved from the Order SC(s) 650. The new encrypted. Symmetric Keys 623 are included in the Key Description part of the License SC(s) 660 that the Clearinghouse(s) 105 returns to the End-User Device(s) 109.

US Reference Patent Number (56):5715403[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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Generate Collection

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L14: Entry 1 of 3

File: USPT

Oct 25, 2005

US-PAT-NO: 6959288

DOCUMENT-IDENTIFIER: US 6959288 B1

TITLE: Digital content preparation system

DATE-ISSUED: October 25, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|---------------|-------|----------|---------|
| Medina; Cesar | Boca Raton | FL | | |
| Gong; Qing | Boynton Beach | FL | | |
| Milsted; Kenneth Louis | Boynton Beach | FL | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE | CODE |
|---|--------|-------|----------|---------|------|------|
| International Business Machines Corporation | Armonk | NY | | | | 02 |

APPL-NO: 09/241276 [PALM]

DATE FILED: February 1, 1999

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This is a divisional of application Ser. No. 09/177,096, filed Oct. 22, 1998 now U.S. Pat. No. 6,389,538, which is a continuation-in-part of application Ser. No. 09/133,519, filed Aug. 13, 1998, now U.S. Pat. No. 6,226,618. The entire disclosure of prior application Ser. No. 09/177,096 is herein incorporated by reference. application ATTORNEY SERIAL TITLE OF DOC. NO. NO. THE INVENTION INVENTOR(S) SE9-98-006 Secure Electronic Kenneth L. Content Management Milsted George Gregory Gruse Marco M. Hurtado Edgar Downs Cesar Medina SE9-98-007 Multimedia Player George Gregory Toolkit Gruse John J. Dorak, Jr. Kenneth L. Milsted SE9-98-010 Key Management Jeffrey B. Lotspiech System for End-User Marco M. Hurtado Digital Player George Gregory Gruse Kenneth L. Milsted SE9-98-011 Multi-media player for Marco M. Hurtado an Electronic Content George Gregory Delivery System Gruse Edgar Downs Kenneth L. Milsted SE9-98-013 A method to identify Kenneth L. Milsted CD content Craig Kindell Qing Gong SE9-98-014 Toolkit for delivering Richard Spagna electronic content from Kenneth L. Milsted an Online store. David P. Lybrand Edgar Downs SE9-98-015 A method and Kenneth L. Milsted apparatus to auto- Kha Kinh Nguyen matically create Qing Gong encode digital content SE9-98-016 A method and Kenneth L. Milsted apparatus to indicate Qing Gong an encoding rate for digital content

INT-CL: [07] G06 F 17/60

US-CL-ISSUED: 705/51; 705/52, 705/57, 709/217

US-CL-CURRENT: 705/51; 705/52, 705/57, 709/217

FIELD-OF-SEARCH: 705/51-54, 705/57-59, 380/3, 380/4, 380/24, 380/25, 380/201-202, 380/230-231, 709/231, 709/217, 709/229, 709/225, 709/232, 725/30-31, 725/87,

725/104

PRIOR-ART-DISCLOSED:

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| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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| <input type="checkbox"/> <u>4272810</u> | June 1981 | Gates et al. | |
| <input type="checkbox"/> <u>4405829</u> | September 1983 | Rivest et al. | |
| <input type="checkbox"/> <u>4424414</u> | January 1984 | Hellman et al. | |
| <input type="checkbox"/> <u>4463387</u> | July 1984 | Hashimoto et al. | |
| <input type="checkbox"/> <u>4528643</u> | July 1985 | Freeny, Jr. | |
| <input type="checkbox"/> <u>4731840</u> | March 1988 | Mniszewski et al. | |
| <input type="checkbox"/> <u>4757534</u> | July 1988 | Matyas et al. | |
| <input type="checkbox"/> <u>4782529</u> | November 1988 | Shima | |
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| <input type="checkbox"/> <u>4878246</u> | October 1989 | Pastor et al. | |
| <input type="checkbox"/> <u>4879747</u> | November 1989 | Leighton et al. | |
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| <input type="checkbox"/> <u>4944006</u> | July 1990 | Citta et al. | |
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| <input type="checkbox"/> <u>5224163</u> | June 1993 | Gasser et al. | |
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| | | | | |
|--------------------------|----------------|----------------|--------------------|------------|
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| <input type="checkbox"/> | <u>5319705</u> | June 1994 | Halter et al. | |
| <input type="checkbox"/> | <u>5347580</u> | September 1994 | Molva et al. | |
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| <input type="checkbox"/> | <u>5537475</u> | July 1996 | Micali | |
| <input type="checkbox"/> | <u>5557541</u> | September 1996 | Schulhof et al. | |
| <input type="checkbox"/> | <u>5581479</u> | December 1996 | McLaughlin et al. | |
| <input type="checkbox"/> | <u>5588060</u> | December 1996 | Aziz | |
| <input type="checkbox"/> | <u>5592664</u> | January 1997 | Starkey | |
| <input type="checkbox"/> | <u>5604804</u> | February 1997 | Micali | |
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| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | CLASS |
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| WO 98/13970 | April 1998 | WO | |

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B. Kaliski, "Privacy Enhancement for Internet Electronic Mail: Part IV: Key Certification and Related Services", RFC 1424, Feb. 1993, pp. 1-8.

ART-UNIT: 3621

PRIMARY-EXAMINER: Hayes; John W.

ATTY-AGENT-FIRM: Shofi; David M. Bongini; Stephen Fleit, Kain, Gibbons, Gutman, Bongini & Bianco P.L.

ABSTRACT:

A digital content preparation system that includes a metadata acquisition tool for acquiring metadata associated with the digital content, and a digital content processor for processing the digital content by performing at least one of watermarking, encoding, and encrypting. A work flow manager manages processings by the metadata acquisition tool and the digital content processor. In one preferred embodiment, the metadata acquisition tool includes an automatic metadata acquisition tool and a manual metadata acquisition tool, and the digital content processor includes an encoder and an encrypter. The present invention also provides a method for preparing digital content. According to the method, metadata associated with the digital content is acquired, and the digital content is processed by at least one of watermarking, encoding, and encrypting. Processings in the acquiring step and the processing step are managed. In a preferred method, the acquiring step includes automatically retrieving at least a portion of the metadata and allowing manual entry of at least a portion of the metadata, and the processing step includes encoding the digital content and encrypting the encoded digital content.

47 Claims, 21 Drawing figures

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L14: Entry 2 of 3

File: USPT

Jan 27, 2004

DOCUMENT-IDENTIFIER: US 6684198 B1

TITLE: Program data distribution via open network

Application Filing Date (1):19970903Detailed Description Text (24):

For decryption, the public key used for encryption and the secret key must correspond to each other. In this embodiment, therefore, the identification (ID) number of a program is employed to determine whether the public key and the secret key correspond.

US Reference Patent Number (8):5715403[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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L14: Entry 3 of 3

File: USPT

Apr 16, 2002

US-PAT-NO: 6374357

DOCUMENT-IDENTIFIER: US 6374357 B1

**** See image for [Certificate of Correction](#) ****

TITLE: System and method for regulating a network service provider's ability to host distributed applications in a distributed processing environment

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|------------|-------|----------|---------|
| Mohammed; Sohail B. | North Bend | WA | | |
| Olson; Kipley J. | Seattle | WA | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-----------------------|---------|-------|----------|---------|-----------|
| Microsoft Corporation | Redmond | WA | | | 02 |

APPL-NO: 09/061573 [\[PALM\]](#)

DATE FILED: April 16, 1998

INT-CL: [07] [G06 F 11/30](#)

US-CL-ISSUED: 713/201; 709/328, 463/42, 713/176

US-CL-CURRENT: [726/5](#); [463/42](#), [713/176](#), [719/328](#)

FIELD-OF-SEARCH: 713/150, 713/165, 713/167, 713/176, 713/200, 713/201, 713/193, 705/51, 705/52, 705/59, 705/55, 705/54, 705/57, 709/217, 709/218, 709/219, 709/225, 709/226, 709/229, 709/227, 709/228, 709/328, 709/230, 709/329, 463/1, 463/40, 463/41, 463/42

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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Lai et al, "Endorsements, Licensing, Insurance for Distributed System Services," Mar. 1995, pp. 1-12.*

"Microsoft incorporates new anti-piracy technologies in Windows 2000, Office 200: New Internet monitoring program also intended to protect consumers and honest resellers from mounting problems of software piracy", 2/2000, M2 Communications Ltd., dialog t.

ART-UNIT: 2131

PRIMARY-EXAMINER: Hayes; Gail

ASSISTANT-EXAMINER: Revak; Christopher A.

ATTY-AGENT-FIRM: Workman, Nydegger, Seeley

ABSTRACT:

The present invention is directed to a novel system and method for regulating a network service provider's ability to provide network services to a distributed application executing on a network connected computer, which is dependent upon whether the NSP possesses a valid permit. The permit is a data structure created by a vendor or distributor of a distributed application. The vendor can selectively issue a permit to the NSP (or NSPs) for which authorization is being granted. When the distributed application is being executed at a client computer, and the services of a particular NSP are requested, an application running at the client first requests that the NSP provide the client with a valid permit. If the permit is valid and authentic, and the identity of the NSP is confirmed, then the application executing at the client will permit the distributed application to utilize the network services of the selected NSP.

21 Claims, 7 Drawing figures

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L14: Entry 3 of 3

File: USPT

Apr 16, 2002

US-PAT-NO: 6374357

DOCUMENT-IDENTIFIER: US 6374357 B1

**** See image for [Certificate of Correction](#) ****

TITLE: System and method for regulating a network service provider's ability to host distributed applications in a distributed processing environment

DATE-ISSUED: April 16, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|------------|-------|----------|---------|
| Mohammed; Sohail B. | North Bend | WA | | |
| Olson; Kipley J. | Seattle | WA | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|-----------------------|---------|-------|----------|---------|-----------|
| Microsoft Corporation | Redmond | WA | | | 02 |

APPL-NO: 09/061573 [\[PALM\]](#)

DATE FILED: April 16, 1998

INT-CL: [07] [G06 F 11/30](#)

US-CL-ISSUED: 713/201; 709/328, 463/42, 713/176

US-CL-CURRENT: [726/5](#); [463/42](#), [713/176](#), [719/328](#)

FIELD-OF-SEARCH: 713/150, 713/165, 713/167, 713/176, 713/200, 713/201, 713/193, 705/51, 705/52, 705/59, 705/55, 705/54, 705/57, 709/217, 709/218, 709/219, 709/225, 709/226, 709/229, 709/227, 709/228, 709/328, 709/230, 709/329, 463/1, 463/40, 463/41, 463/42

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|-------------------------|-------------|---------------|---------|
| <input type="checkbox"/> | 5138712 | August 1992 | Corbin | 713/200 |
| <input type="checkbox"/> | 5438508 | August 1995 | Wyman | 705/8 |
| <input type="checkbox"/> | 5629980 | May 1997 | Stefik et al. | 705/54 |
| <input type="checkbox"/> | 5638443 | June 1997 | Stefik et al. | 705/54 |

| | | | | |
|--------------------------|----------------|----------------|--------------------|---------|
| <input type="checkbox"/> | <u>5715403</u> | February 1998 | Stefik | 705/44 |
| <input type="checkbox"/> | <u>5958051</u> | September 1999 | Renaud et al. | 713/200 |
| <input type="checkbox"/> | <u>6058383</u> | May 2000 | Narasimhalu et al. | 705/44 |
| <input type="checkbox"/> | <u>6134659</u> | October 2000 | Sprong et al. | 713/190 |
| <input type="checkbox"/> | <u>6188995</u> | February 2001 | Garst et al. | 705/59 |
| <input type="checkbox"/> | <u>6233684</u> | May 2001 | Stefik et al. | 713/176 |

OTHER PUBLICATIONS

Lai et al, "Endorsements, Licensing, Insurance for Distributed System Services," Mar. 1995, pp. 1-12.*

"Microsoft incorporates new anti-piracy technologies in Windows 2000, Office 200: New Internet monitoring program also intended to protect consumers and honest resellers from mounting problems of software piracy", 2/2000, M2 Communications Ltd., dialog t.

ART-UNIT: 2131

PRIMARY-EXAMINER: Hayes; Gail

ASSISTANT-EXAMINER: Revak; Christopher A.

ATTY-AGENT-FIRM: Workman, Nydegger, Seeley

ABSTRACT:

The present invention is directed to a novel system and method for regulating a network service provider's ability to provide network services to a distributed application executing on a network connected computer, which is dependent upon whether the NSP possesses a valid permit. The permit is a data structure created by a vendor or distributor of a distributed application. The vendor can selectively issue a permit to the NSP (or NSPs) for which authorization is being granted. When the distributed application is being executed at a client computer, and the services of a particular NSP are requested, an application running at the client first requests that the NSP provide the client with a valid permit. If the permit is valid and authentic, and the identity of the NSP is confirmed, then the application executing at the client will permit the distributed application to utilize the network services of the selected NSP.

21 Claims, 7 Drawing figures

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L14: Entry 3 of 3

File: USPT

Apr 16, 2002

DOCUMENT-IDENTIFIER: US 6374357 B1

**** See image for [Certificate of Correction](#) ****

TITLE: System and method for regulating a network service provider's ability to host distributed applications in a distributed processing environment

Application Filing Date (1):19980416Detailed Description Text (28):

In the exemplary embodiment of FIG. 4, this NSP authentication information is submitted at program step 162 in the form of a "public certificate" that is owned by the NSP 110 and provided to the application vendor 126, as is schematically shown at 164 in FIG. 4. This certificate (designated at 142 in FIG. 3) is then appended to the permit at program step 156. The certificate, sometimes referred to as a "digital certificate" or a "public key certificate," is an electronic data record that identifies an entity (such as the NSP, for example), and also serves to verify that a specific public key (for decryption) and private key (for encryption) belongs to that particular entity. Typically a certificate is issued to an entity by a Certification Authority (CA) only after that Authority has verified that the specified keys belong to that entity. In the preferred embodiment, this certificate is then provided to the application vendor 126 so that the NSP's 110 public key can be included within the permit 132 at program step 156. As will be discussed in further detail below, it is this public key that is later used to confirm that the NSP that provides a permit 132 is indeed the NSP to which the permit was issued.

US Reference Patent Number (5):5715403[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)

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☐ 1. Document ID: US 6959288 B1

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L18: Entry 1 of 13

File: USPT

Oct 25, 2005

US-PAT-NO: 6959288

DOCUMENT-IDENTIFIER: US 6959288 B1

TITLE: Digital content preparation system

DATE-ISSUED: October 25, 2005

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------------|---------------|-------|----------|---------|
| Medina; Cesar | Boca Raton | FL | | |
| Gong; Qing | Boynton Beach | FL | | |
| Milsted; Kenneth Louis | Boynton Beach | FL | | |

US-CL-CURRENT: 705/51; 705/52, 705/57, 709/217

| | | | | | | | | | | | | |
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De |
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☐ 2. Document ID: US 6684198 B1

L18: Entry 2 of 13

File: USPT

Jan 27, 2004

US-PAT-NO: 6684198

DOCUMENT-IDENTIFIER: US 6684198 B1

TITLE: Program data distribution via open network

| | | | | | | | | | | | | |
|----------------------|-----------------------|--------------------------|-----------------------|------------------------|--------------------------------|----------------------|---------------------------|---------------------------|-----------------------------|------------------------|---------------------|-------------------------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De |
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☐ 3. Document ID: US 6374357 B1

L18: Entry 3 of 13

File: USPT

Apr 16, 2002

US-PAT-NO: 6374357

DOCUMENT-IDENTIFIER: US 6374357 B1

**** See image for Certificate of Correction ****

TITLE: System and method for regulating a network service provider's ability to

host distributed applications in a distributed processing environment

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
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☐ 4. Document ID: US 6141754 A

L18: Entry 4 of 13

File: USPT

Oct 31, 2000

US-PAT-NO: 6141754

DOCUMENT-IDENTIFIER: US 6141754 A

TITLE: Integrated method and system for controlling information access and distribution

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 5. Document ID: US 6073124 A

L18: Entry 5 of 13

File: USPT

Jun 6, 2000

US-PAT-NO: 6073124

DOCUMENT-IDENTIFIER: US 6073124 A

TITLE: Method and system for securely incorporating electronic information into an online purchasing application

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 6. Document ID: US 5757908 A

L18: Entry 6 of 13

File: USPT

May 26, 1998

US-PAT-NO: 5757908

DOCUMENT-IDENTIFIER: US 5757908 A

TITLE: Method and apparatus for enabling trial period use of software products: method and apparatus for utilizing an encryption header

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 7. Document ID: US 5708709 A

L18: Entry 7 of 13

File: USPT

Jan 13, 1998

US-PAT-NO: 5708709

DOCUMENT-IDENTIFIER: US 5708709 A

TITLE: System and method for managing try-and-buy usage of application programs

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 8. Document ID: US 5553143 A

L18: Entry 8 of 13

File: USPT

Sep 3, 1996

US-PAT-NO: 5553143

DOCUMENT-IDENTIFIER: US 5553143 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for electronic licensing

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 9. Document ID: US 5103476 A

L18: Entry 9 of 13

File: USPT

Apr 7, 1992

US-PAT-NO: 5103476

DOCUMENT-IDENTIFIER: US 5103476 A

TITLE: Secure system for activating personal computer software at remote locations

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 10. Document ID: US 5050213 A

L18: Entry 10 of 13

File: USPT

Sep 17, 1991

US-PAT-NO: 5050213

DOCUMENT-IDENTIFIER: US 5050213 A

TITLE: Database usage metering and protection system and method

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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| L17 and L13 | 13 |

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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 6141754 A

Using default format because multiple data bases are involved.

L19: Entry 1 of 10

File: USPT

Oct 31, 2000

US-PAT-NO: 6141754

DOCUMENT-IDENTIFIER: US 6141754 A

TITLE: Integrated method and system for controlling information access and distribution

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------|-----------|-------|----------|---------|
| Choy; David M. | Los Altos | CA | | |

US-CL-CURRENT: 726/1; 705/52, 705/59

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMCC | Draw De |
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☐ 2. Document ID: US 6073124 A

L19: Entry 2 of 10

File: USPT

Jun 6, 2000

US-PAT-NO: 6073124

DOCUMENT-IDENTIFIER: US 6073124 A

TITLE: Method and system for securely incorporating electronic information into an online purchasing application

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMCC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 3. Document ID: US 5757908 A

L19: Entry 3 of 10

File: USPT

May 26, 1998

US-PAT-NO: 5757908

DOCUMENT-IDENTIFIER: US 5757908 A

TITLE: Method and apparatus for enabling trial period use of software products: method and apparatus for utilizing an encryption header

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 4. Document ID: US 5708709 A

L19: Entry 4 of 10

File: USPT

Jan 13, 1998

US-PAT-NO: 5708709

DOCUMENT-IDENTIFIER: US 5708709 A

TITLE: System and method for managing try-and-buy usage of application programs

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 5. Document ID: US 5553143 A

L19: Entry 5 of 10

File: USPT

Sep 3, 1996

US-PAT-NO: 5553143

DOCUMENT-IDENTIFIER: US 5553143 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for electronic licensing

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 6. Document ID: US 5103476 A

L19: Entry 6 of 10

File: USPT

Apr 7, 1992

US-PAT-NO: 5103476

DOCUMENT-IDENTIFIER: US 5103476 A

TITLE: Secure system for activating personal computer software at remote locations

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 7. Document ID: US 5050213 A

L19: Entry 7 of 10

File: USPT

Sep 17, 1991

US-PAT-NO: 5050213

DOCUMENT-IDENTIFIER: US 5050213 A

TITLE: Database usage metering and protection system and method

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KM/C | Draw De |
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☐ 8. Document ID: US 5047928 A

L19: Entry 8 of 10

File: USPT

Sep 10, 1991

US-PAT-NO: 5047928

DOCUMENT-IDENTIFIER: US 5047928 A

TITLE: Billing system for computer software

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 9. Document ID: US 4977594 A

L19: Entry 9 of 10

File: USPT

Dec 11, 1990

US-PAT-NO: 4977594

DOCUMENT-IDENTIFIER: US 4977594 A

**** See image for Certificate of Correction ****

TITLE: Database usage metering and protection system and method

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|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|

☐ 10. Document ID: US 4529870 A

L19: Entry 10 of 10

File: USPT

Jul 16, 1985

US-PAT-NO: 4529870

DOCUMENT-IDENTIFIER: US 4529870 A

TITLE: Cryptographic identification, financial transaction, and credential device

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|--------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |
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